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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/839,078	04/20/2001	Ping Sheng Zhang	29876/37280	2715
4743	7590 03/12/2002			
MARSHALL, O'TOOLE, GERSTEIN, MURRAY & BORUN 6300 SEARS TOWER 233 SOUTH WACKER DRIVE			EXAMINER	
			MCDERMOTT, KEVIN	
CHICAGO, IL 60606-6402			ART UNIT	PAPER NUMBER
			3635	
			DATE MAILED: 03/12/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Q
•	Application No.	Applicant(s)
	09/839,078	ZHANG ET AL.
Office Action Summary	Examiner	Art Unit
	McDermott, Kevin	3635
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a REALIZONE.	nely filed  's will be considered timely the mailing date of this communication.
1) Responsive to communication(s) filed on	·	
	— is action is non-final.	
3) Since this application is in condition for allowa closed in accordance with the practice under Disposition of Claims	ance except for formal matters, pr	osecution as to the merits is 53 O.G. 213.
4) Claim(s) 1-12 is/are pending in the application	i.	
4a) Of the above claim(s) is/are withdraw	vn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-12</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or Application Papers	election requirement.	
9) The specification is objected to by the Examiner		
10) ☐ The drawing(s) filed on is/are: a) ☐ accep	ited or b)  objected to by the Exar	miner.
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. S $\epsilon$	ee 37 CFR 1.85(a).
11) The proposed drawing correction filed on	is: a)☐ approved b)☐ disappro	ved by the Examiner.
If approved, corrected drawings are required in rep		
12) ☐ The oath or declaration is objected to by the Exa	aminer.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	)-(d) or (f).
a) All b) Some * c) None of:		
<ol> <li>Certified copies of the priority documents</li> </ol>	have been received.	
2. Certified copies of the priority documents	have been received in Application	on No
3. Copies of the certified copies of the priori application from the International Bure	eau (PCT Rule 17.2(a)).	<b>G</b>
* See the attached detailed Office action for a list of 14.	·	
14) Acknowledgment is made of a claim for domestic		· · · · · · · · · · · · · · · · · · ·
<ul><li>a)  The translation of the foreign language prov</li><li>15) Acknowledgment is made of a claim for domestic</li></ul>		
Attachment(s)	, priority under 30 0.3.0. 99 120 (	and/01 12 1.
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449) Paper No(s)		(PTO-413) Paper No(s) atent Application (PTO-152)

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Application/Control Number: 09/839,078

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Nelson.

Nelson discloses in figures 1 and 2, and column 2, lines 20-40, a floor construction and assembly comprising wood boards 15 locked together using tongues 16 and grooves 17. As shown in Figure 1, the wood grain of wood boards 15 extends generally in the longitudinal direction of the board 15. The boards 15 are supported by and anchored to spaced sleepers 12. Figure 1 also shows the grain of the sleepers 12 being transverse to the direction of the wood boards 15. Examiner interprets wood boards 15 as the first layer of a plurality of strips, and spaced sleepers 12 as the second layer of a plurality of spaced strips.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nelson in view of Burlant.

Nelson discloses in figures 1 and 2, and column 2, lines 20-40, a floor construction and assembly comprising wood boards 15 locked together using tongues 16 and grooves 17. As shown in Figure 1, the wood grain of wood boards 15 extends generally in the longitudinal direction of the board 15. The boards 15 are supported by and anchored to spaced sleepers 12. Figure 1 also shows the grain of the sleepers 12 being transverse to the direction of the wood boards 15. Examiner interprets wood boards 15 as the first layer of a plurality of strips, and spaced sleepers 12 as the second layer of a plurality of spaced strips. However, Nelson does not disclose disposing acrylic urethane or aluminum oxide on wood flooring strips.

Burlant discloses in column 1, lines 31-40 and column 2, lines 11-34, providing wood with a urethane resin and vinyl monomer coating to form a decorative or abrasion resistant coating. The vinyl monomer includes an acrylic monomer.

Therefore, Examiner considers it obvious to one of ordinary skill in the art at the time the invention was made to dispose a wood coating made of acrylic urethane on the wood boards 15 of Nelson. One of ordinary skill would have been motivated to make such a modification to increase the abrasion resistance of all of the wood board 15 faces.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nelson in view of Chen.

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Nelson discloses in figures 1 and 2, and column 2, lines 20-40, a floor construction and assembly comprising wood boards 15 locked together using tongues 16 and grooves 17. As shown in Figure 1, the wood grain of wood boards 15 extends generally in the longitudinal direction of the board 15. The boards 15 are supported by and anchored to spaced sleepers 12. Figure 1 also shows the grain of the sleepers 12 being transverse to the direction of the wood boards 15. Examiner interprets wood boards 15 as the first layer of a plurality of strips, and spaced sleepers 12 as the second layer of a plurality of spaced strips. However, Nelson does not disclose disposing aluminum oxide on flooring strips.

Chen discloses disposing aluminum oxide on floor surfaces. Therefore, Examiner considers it obvious to one of ordinary skill in the art at the time the invention was made to dispose aluminum oxide on the wood boards 15 of Nelson to increase the abrasion resistance of the flooring.

Claims 8-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nelson in view of Burlant and further in view of Wu.

Nelson discloses in figures 1 and 2, and column 2, lines 20-40, a floor construction and assembly comprising wood boards 15 locked together using tongues 16 and grooves 17. As shown in Figure 1, the wood grain of wood boards 15 extends generally in the longitudinal direction of the board 15. The boards 15 are supported by and anchored to spaced sleepers 12. Figure 1 also shows the grain of the sleepers 12 being transverse to the direction of the wood boards 15. Examiner interprets wood boards 15 as the first layer of a plurality of strips, and spaced sleepers 12 as the second

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layer of a plurality of spaced strips. However, Nelson does not disclose disposing

acrylic urethane on wood flooring strips or using bamboo flooring strips in lieu of wood.

Burlant discloses in column 1, lines 31-40 and column 2, lines 11-34, providing

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wood with a urethane resin and vinyl monomer coating to form a decorative or abrasion

resistant coating. The vinyl monomer includes an acrylic monomer.

Wu discloses, in column 1, lines 14-15, a wooden or bamboo floor. Therefore,

Examiner considers it obvious to one of ordinary skill in the art at the time the invention

was made to make the wood boards 15 of Nelson from bamboo and to dispose a wood

coating made of acrylic urethane on the wood boards 15. One of ordinary skill would

have been motivated to make such a modification to increase the abrasion resistance of

all of the wood board 15 faces.

Response to Arguments

Applicant's arguments with respect to claims 1-12 have been considered but are

moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the

Examiner should be directed to Kevin McDermott, whose telephone number is 703-308-

8266.

Carl D. Friedman

Supervisory Patent Examiner

Group 3600

KM 3/5/02